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L10 ANSWER 1 OF 5 USPATFULL on STN
       2004:172873 USPATFULL
AN
       Process for preparing a branched olefin, a method of using the branched
TΙ
       olefin for making a surfactant, and a surfactant
       Fenouil, Laurent Alain Michel, Twickenham, UNITED KINGDOM
TN
       Murray, Brendan Dermot, Houston, TX, UNITED STATES
       Ayoub, Paul Marie, Houston, TX, UNITED STATES
                               20040708
       US 2004133037
                          A1.
PΤ
                               20031217 (10)
       US 2003-738572
                          Α1
ΑI
       Division of Ser. No. US 2002-75682, filed on 14 Feb 2002, PENDING
RLI
                           20010215 (60)
       US 2001-269874P
PRAI
DT
       Utility
       APPLICATION
FS
       Donald F. Haas, Shell Oil Company, Legal - Intellectual Property, P. O.
LREP
       Box 2463, Houston, TX, 77252-2463
       Number of Claims: 104
CLMN
       Exemplary Claim: 1
ECL
       No Drawings
DRWN
LN.CNT 1467
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
       A process for preparing branched olefins comprising 0.5% or less
AB
       quaternary aliphatic carbon atoms, which process comprises
       dehydrogenating an isoparaffinic composition over a suitable
       catalyst which isoparaffinic composition comprises paraffins
       having a carbon number in the range of from 7 to 35, of which paraffins
       at least a portion of the molecules is branched, the average number of
       branches per paraffin molecule being at least 0.7 and the branching
       comprising methyl and optionally ethyl branches, and which
       isoparaffinic composition may be obtained by hydrocracking and
       hydroisomerization of a paraffinic wax; a method of using olefins for
       making an anionic surfactant, a nonionic surfactant or a cationic
       surfactant, in particular a surfactant sulfate or sulfonate, comprising
       converting the branched olefins into the surfactant; and an anionic
       surfactant, a nonionic surfactant or a cationic surfactant which is
       obtainable by the method of use.
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
L10 ANSWER 2 OF 5 USPATFULL on STN
       2004:25282 USPATFULL
AN
       Process for the preparation of a highly linear alcohol
TI
       composition
       Dirkzwager, Hendrik, Amsterdam, NETHERLANDS
IN
       Fenouil, Laurent Alain, Houston, TX, UNITED STATES
       Geijsel, Joannes Ignatius, The Hague, NETHERLANDS
       Hoek, Arend, Amsterdam, NETHERLANDS
       Van Der Steen, Frederik Hendrik, Amsterdam, NETHERLANDS
       US 2004019124
                          A1
                                20040129
PΙ
                                20030717 (10)
       US 2003-621816
                          Α1
ΑI
       Division of Ser. No. US 2002-167209, filed on 11 Jun 2002, GRANTED, Pat.
RLI
       No. US 6657092
                            20010612
       EP 2001-305087
PRAI
       Utility
DT
       APPLICATION
FS
       Donald F. Haas, Shell Oil Company, Legal - Intellectual Property, P.O.
LREP
       Box 2463, Houston, TX, 77252-2463
       Number of Claims: 21
CLMN
       Exemplary Claim: 1
ECL
       No Drawings
DRWN
LN.CNT 761
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
        Process for the preparation of a highly linear alcohol
ΔR
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composition is provided comprising the steps of:

- (a) reacting carbon monoxide with hydrogen under Fischer-Tropsch reaction conditions in the presence of a Fischer-Tropsch catalyst comprising cobalt;
- (b) separating from the product of step (a) at least one hydrocarbon fraction comprising between 10 and 50% by weight of olefins containing 6 or more carbon atoms;
- (c) contacting one or more of the hydrocarbon fractions obtained in step (b) with carbon monoxide and hydrogen under hydroformylation conditions in the presence of a hydroformylation catalyst based on a
- source of cobalt and one or more alkyl phosphines; and

(d) recovering the alcohol composition.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 3 OF 5 USPATFULL on STN

AN 2003:106838 USPATFULL

TI Process for the preparation of a highly linear alcohol composition

IN Dirkzwager, Hendrik, Amsterdam, NETHERLANDS
Fenouil, Laurent Alain, Houston, TX, UNITED STATES
Geijsel, Joannes Ignatius, The Hague, NETHERLANDS
Hoek, Arend, Amsterdam, NETHERLANDS

Van Der Steen, Frederik Hendrik, Amsterdam, NETHERLANDS

PI US 2003073750 A1 20030417 US 6657092 B2 20031202

AI US 2002-167209 A1 20020611 (10)

PRAI EP 2001-305087 20010612

DT Utility

FS APPLICATION

LREP Yukiko Iwata, Shell Oil Company, Legal - Intellectual Property, P.O. Box 2463, Houston, TX, 77252-2463

CLMN Number of Claims: 21 ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 762

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

- AB Process for the preparation of a highly linear alcohol composition is provided comprising the steps of:
 - (a) reacting carbon monoxide with hydrogen under Fischer-Tropsch reaction conditions in the presence of a Fischer-Tropsch catalyst comprising cobalt;
 - (b) separating from the product of step (a) at least one hydrocarbon fraction comprising between 10 and 50% by weight of olefins containing 6 or more carbon atoms;
 - (c) contacting one or more of the hydrocarbon fractions obtained in step (b) with carbon monoxide and hydrogen under hydroformylation conditions in the presence of a hydroformylation catalyst based on a source of cobalt and one or more alkyl phosphines; and
 - (d) recovering the alcohol composition.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 1

AN 2002:964307 CAPLUS

DN 138:26102

TI Two-step process for the preparation of a highly linear

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alcohol composition from synthesis gas
     Dirkzwager, Hendrik; Fenouil, Laurent Alain; Geijsel, Johannes Ignatius;
IN
     Hoek, Arend; Van der Steen, Frederik Hendrik
     Shell Internationale Research Maatschappij BV, Neth.
PΑ
     PCT Int. Appl., 29 pp.
SO
     CODEN: PIXXD2
DT
     Patent
     English
LΑ
FAN.CNT 1
                                                                           DATE
                                                APPLICATION NO.
                          KIND
                                   DATE
     PATENT NO.
                                                                           _____
                                   _____
                            _ _ _ _
                                                 WO 2002-EP6373
                                                                           20020610
                                   20021219
                            A1 ·
PI
     WO 2002100806
                            C1 · 20040415
     WO 2002100806
          W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
              CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
              GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,
              TJ, TM
          RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
              BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                                 20040310
                                              EP 2002-745373
                                                                         20020610
                            A1
              AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
              IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
                                                US 2002-167209
                                                                           20020611
                                    20030417
                        A1
     US 2003073750
                             B2
                                    20031202
     US 6657092
                                                                           20030717
                            A1
                                    20040129
                                                 US 2003-621816
     US 2004019124
                                    20010612
                            Α
PRAI EP 2001-305087
                                    20020610
                             W
     WO 2002-EP6373
                                    20020611
                            A3
     US 2002-167209
     The title process comprises the steps of: (a) reacting carbon
AB
     monoxide with hydrogen under Fischer-Tropsch reaction conditions
     in the presence of a Fischer-Tropsch catalyst containing cobalt (e.g.,
     CoMn/titania); (b) separating from the product of step (a) at least one
     hydrocarbon fraction comprising 10-50% of C≥6 olefins; (c)
      contacting one or more of the hydrocarbon fractions obtained in step (b)
      with carbon monoxide and hydrogen under hydroformylation
      conditions in the presence of a hydroformylation catalyst based on a
      source of cobalt and one or more alkylphosphines (e.g.,
      9-eicosyl-9-phosphabicyclononane); and (d) recovering the alc.
      compn. The alc. compn. comprises C12/C13
      linear primary mono-alcs. and C12/C13
      iso-alcs., where the wt. ratio C12
      linear primary alc. to C13 linear
      primary alc. is 0.5-2.0. The alc. compn. also
      contains C14/C15 linear primary mono-alcs.
      and C14/C15 iso-alcs., where the wt.
      ratio of the C14 linear primary alc. to the
      C15 linear primary alc. is 1.0-3.0.
                THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT 2
                ALL CITATIONS AVAILABLE IN THE RE FORMAT
     ANSWER 5 OF 5 USPATFULL on STN
T<sub>1</sub>1.0
        2002:323394 USPATFULL
ΑN
        Process for preparing a branched olefin, a method of using the branched
TI
        olefin for making a surfactant, and a surfactant
Fenouil, Laurent Alain Michel, Twickenham, UNITED KINGDOM
IN
        Murray, Brendan Dermot, Houston, TX, UNITED STATES
        Ayoub, Paul Marie, Houston, TX, UNITED STATES
        US 2002183567
                             A1
                                   20021205
PΤ
                                   20040720
                             B2
        US 6765106
                                   20020214 (10)
                             A1
        US 2002-75682
ΑI
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PRAI US 2001-269874P 20010215 (60)

Utility DT

FS APPLICATION

LREP Yukiko Iwata, Shell Oil Company, Legal - Intellectual Property, P.O. Box

2463, Houston, TX, 77252-2463

CLMN Number of Claims: 104 ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 1465

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A process for preparing branched olefins comprising 0.5% or less quaternary aliphatic carbon atoms, which process comprises dehydrogenating an isoparaffinic composition over a suitable catalyst which isoparaffinic composition comprises paraffins having a carbon number in the range of from 7 to 35, of which paraffins at least a portion of the molecules is branched, the average number of branches per paraffin molecule being at least 0.7 and the branching comprising methyl and optionally ethyl branches, and which isoparaffinic composition may be obtained by hydrocracking and hydroisomerization of a paraffinic wax; a method of using olefins for making an anionic surfactant, a nonionic surfactant or a cationic surfactant, in particular a surfactant sulfate or sulfonate, comprising converting the branched olefins into the surfactant; and an anionic surfactant, a nonionic surfactant or a cationic surfactant which is obtainable by the method of use.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.